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FILE LAST UPDATED: 9 Apr 2002 (20020409/ED)

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=* s hydrocracking
L4      8332 HYDROCRACKING

=* s catalyst and nitrogen and organic
      586144 CATALYST
      445363 NITROGEN
      274834 ORGANIC
L5      437 CATALYST AND NITROGEN AND ORGANIC

=* s 14 and 15
L6      ? L4 AND L5

=* d 1-9
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LC      ANSWER 1 OF 3 CPLUS  COPYRIGHT 2002 ACS
AN      2001:676697 CPLUS
DN      135:228574
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TI Preparation of crystalline zeolite SSZ-35 using quaternary **organic** amines as a template and its use as a **catalyst** for the conversion of hydrocarbons

IN Elomari, Saleh; Harris, Thomas V.

PA Chevron U.S.A. Inc., USA

SO PET Int. Appl., 60 pp.

CDDEN: PIXXDB

DT Patent

LA English

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	-----	-----	-----	-----	-----
PI	WO 2001066464	A2	20010913	WO 2001-US6655	20010228
	WO 2001066464	A3	20020214		
	W:	AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BE, BY, BZ, CA, CH, CN, CR, CU, CS, DE, DK, DM, DS, EE, ES, FI, GB, GD, GE, GH, GM, HR,			

HU, ID, IL, IN, JP, KE, KG, KP, KR, KS, LC, LK, LR, LS, LT,
LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, ND, NZ, PL, PT, RO, RU,
SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, UZ, VN, YU,
ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM
PW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY,
DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR, BF,
BG, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG

PFAI US 2000-020640 A 20000307

LC ANSWER 2 OF 9 CAPLUS COPYRIGHT 2002 ACS

AN 2000:79530 CAPLUS

DN 132:95557

TI Activation of catalysts in the presence of sulfur and **nitrogen** compounds and use of the catalysts in hydroconversion

IN Mignard, Samuel; Harle, Virginie; Kasztelan, Slavik; George, Marchal Nathalie

PA Institut Francais du Petrole, Fr.

SO Fr. Demande, 22 pp.

CODEN: FPKXBL

DT Patent

LA French

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	FP 2778349	A1	19991112	FR 1998-5741	19980506
	FP 2778349	B1	20000616		
	US 6329314	B1	20010111	US 1999-305287	19990505
PFAI	FP 1998-5741	A	19980506		

LC ANSWER 3 OF 9 CAPLUS COPYRIGHT 2002 ACS

AN 2000:79530 CAPLUS

DN 132:95557

TI Activation of catalysts with a **nitrogen** compound and an excess sulfur compound and use of the catalysts in hydroconversion

IN Mignard, Samuel; Harle, Virginie; Kasztelan, Slavik; George, Marchal Nathalie

PA Institut Francais du Petrole, Fr.

SO Fr. Demande, 21 pp.

CODEN: FPKXBL

DT Patent

LA French

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	FP 2778346	A1	19991112	FR 1998-5738	19980506
	FP 2778346	B1	20000616		
	US 6187708	B1	20010213	US 1999-305285	19990505
PFAI	FP 1998-5738	A	19980506		

LC ANSWER 4 OF 9 CAPLUS COPYRIGHT 2002 ACS

AN 1980:131750 CAPLUS

DN 92:131750

TI **Hydrocracking** of n-hexadecane and vacuum distillates of petroleum on a zeolite-containing **catalyst** in the presence of **organic** compounds of **nitrogen**

AU Selentsov, Yu. N.; Safonov, G. A.; Osipov, L. M.; Plyusnin, A. N.

CS Angarsk. Neftekhim. Kompl., Angarsk, USSR

SC Neftekhimiya (1979), 19(6), 856-61

CODEN: NEFTAH; ISSN: 0028-3421

DT Journal

LA Russian

LC ANSWER 5 OF 9 CAPLUS COPYRIGHT 2002 ACS

AN 1973:18651 CAPLUS

DN 78:18651

TI Gas oil **hydrocracking**

IN Pfefferle, William C.

PA Enegehard Minerals and Chemicals Corp.
SO Ger. Offen., 27 pp.

CODEN: GWKXBM

DT Patent

LA German

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	DE 2110676	A	19720914	DE 1971-2110676	19710305

LC ANSWER 6 OF 9 CAPLUS COPYRIGHT 2002 ACS

AN 1972:450989 CAPLUS

DN 77:50989

TI Light resistance and heat stability of wax and ceresin

AU Krivjansky, Frantisak; Revenda, Jan; Sekik, Rudolf

CS Vysk. Ustav Ropu Uhl'ovodikove Plyn, Bratislava, Czech.

SO Ropa Uhlie (1972), 14(4), 179-88

CODEN: ROUHAY

DT Journal

LA Slovak

LC ANSWER 7 OF 9 CAPLUS COPYRIGHT 2002 ACS

AN 1972:5551 CAPLUS

DN 76:5551

TI Apparatus for quantitatively determining the **nitrogen** content of **organic** materials

IN Oita, Itsumi J.

PA Standard Oil Co. (Indiana)

SO U.S., 9 pp.

CODEN: USXKAM

DT Patent

LA English

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	US 3616273	A	19711026	US 1968-717889	19680401

LC ANSWER 8 OF 9 CAPLUS COPYRIGHT 2002 ACS

AN 1968:483199 CAPLUS

DN 69:83199

TI Rapid determination of **organic nitrogen** with a coulometric detector

AU Oita, I. J.

CS Res. and Develop. Dep., American Oil Co., Whiting, Indiana, USA

SO Anal. Chem. (1968), 40(11), 1753-5

CODEN: ANCHAM

DT Journal

LA English

LC ANSWER 9 OF 9 CAPLUS COPYRIGHT 2002 ACS

AN 1965:423304 CAPLUS

DN 63:23304

CREF 63:4078b-c

TI Catalytic **hydrocracking** of hydrocarbon feedstocks containing **organic nitrogen** compounds

IN Wood, Frederick C.; Bradley, William E.; Peralta, Bernal

PA Union Oil Co. of California

SO 7 pp.

DT Patent

LA Unavailable

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	US 3186936		19650601	US	19630318

L6 ANSWER 4 OF 9 CAPLUS COPYRIGHT 2002 ACS
AB The presence of N bases reduces the degree of cleavage, hydrogenation, and isomerization in petroleum hydrocracking. **Hydrocracking** on zeolitic **catalyst** Gk-8 was studied in the following system: n-hexadecane [544-76-3]; n-hexadecane-quincline [91-22-5]; raw 340-490.degree. vacuum distillate of Western Siberian oil with N bases removed; and the Western Siberian distillate with addn. of a conc. of its N bases. The specific degree of isomerization in the **hydrocracking** of n-hexadecane with a without quinoline addn. remained const.; thus, cleavage and isomerization occurred primarily at the same active centers, and quinoline blocked these centers. The cleavage stage preceded the isomerization stage. The compns. of sep. fractions of hydrogenizates produced in the **hydrocracking** of vacuum distillates at various pressures were examd. Naphthenic rings formed in the hydrogenation of arom. hydrocarbons did not undergo cleavage.

=> d ab 5

L6 ANSWER 5 OF 9 CAPLUS COPYRIGHT 2002 ACS
AB Hydrocarbons h. at 150-482.degree. are hydrocracked to gasoline after prehydrating at >57 atm and 288-482.degree. with a Pt **catalyst** that decreases the content of **organic** N cmpds. from an amt. equiv. to >200 ppm N to .apprx.20 ppm. H is then added to the system at 260-455.degree. and <56 atm with a Pt **catalyst** on a SiO₂-Al₂O₃ carrier. The N content of the H-contg. circulating gas is further reduced by adsorption of NH₃ and S is also removed with a mol. sieve. The hydrated product is distd. and the distn. residue recycled. The hydration may also take place at 315-455.degree. and 70-140 atm and the **hydrocracking** at 288-400.degree. and 28-56 atm.